

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Currently amended) A golf club head comprising a first body portion and a second body portion, the first body portion including a front face having a geometric face center[.]:

wherein the club head [[has]] having a center of gravity of at least about 5 mm lower than the geometric face center[[.]]:

the first body portion composed of a first material having a density, the second body portion composed of a second material having a density that is less than the density of the first material; and

the second body portion forms at least a crown section, and a substantial portion of a skirt section.

2. (Currently amended) The golf club head of claim 1, wherein the front face has a point of maximum coefficient [[or]] of restitution not higher than about 2 mm below the geometric face center.

3. (Currently amended) The golf club head of claim 1, wherein the front face has a point of maximum coefficient [[or]] of restitution not higher than about 5 mm below the geometric face center.

4-6. (Cancelled)

7. (Currently amended) The golf club head according to claim [[5]] 1, wherein the second body portion density is between about 0.1 g/cc to 4.0 g/cc.

8. (Currently amended) The golf club head according to claim [[5]] 1, wherein the first material is a titanium alloy and the second material is a metal, or a composite or a thermoplastic.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

9. (Original) The golf club head according to claim 8, wherein the second material is magnesium.
10. (Currently amended) The golf club head according to claim [[5]] 8, wherein the first material is a stainless steel alloy and the second material is metal, composite or a thermoplastic.
11. (Original) The golf club head according to claim 10, wherein the second material is a titanium alloy.
12. (Currently amended) The golf club head of claim [[5]] 1, wherein the second body portion is cast, formed, injection molded, machined or pre-preg sheet formed.
13. (Currently amended) The golf club head of claim [[5]] 1, wherein the first body portion is forged.
14. (Currently amended) The golf club head of claim [[5]] 1, wherein the first body portion is sheet metal formed.
15. (Currently amended) The golf club head of claim [[5]] 1, wherein the first body portion is cast.
16. (Original) The golf club head according to claim 1, wherein the club head has a maximum coefficient of restitution greater than 0.80.
17. (Original) The golf club head according to claim 2, wherein the point of maximum coefficient of restitution is located approximate to a vertical plane including the geometric face center.
18. (Original) The golf club head of claim 1, wherein the thickness of the front face is greater at a sole section than at a crown section.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

19. (Original) The golf club head according to claim 1, wherein a high density weight portion is integral with a sole section at a distance away from the face.

20. (Original) The golf club head according to claim 19, wherein the high density weight portion is between about 15% to 25% of the total head weight.

21. (Currently amended) A golf club head comprising:

a first body portion composed of a first material having a density and having a front face interposed between a crown section and a sole section, the front face having a geometric face center and a point of maximum coefficient of restitution;

a second body portion composed of a second material having a density that is less than the density of the first material;

the second body portion forming at least a crown section and a substantial portion of a skirt section, and

the front face gradually increasing in thickness in a gradient from the crown section to the sole section,

wherein the club head has a center of gravity at least 6 mm lower than the geometric face center.

22-23. (Cancelled)

24. (Currently amended) The golf club head according to claim [[22]] 21, wherein the second body portion density is between about 0.1 g/cc to 4.0 g/cc.

25. (Currently amended) The golf club head according to claim [[22]] 21, wherein the first material is a titanium alloy or a stainless steel alloy and the second material is magnesium.

26. (Currently amended) The golf club head according to claim [[22]] 21, wherein the first material is a titanium alloy or a stainless steel alloy and the second material is aluminum or a graphite composite or a thermoplastic.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

27. (Currently amended) The golf club head of claim [[22]] 21, wherein the second body portion is cast, formed, injection molded, machined or pre-preg sheet formed.
28. (Original) The golf club head of claim 21, wherein the first body portion is forged.
29. (Original) The golf club head of claim 21, wherein the first body portion is sheet metal formed.
30. (Original) The golf club head according to claim 21, wherein the point of maximum coefficient of restitution is located approximate to a vertical plane including the geometric face center.
31. (Original) The golf club head according to claim 21, wherein the club head has a maximum coefficient of restitution greater than 0.80.
32. (Original) The golf club head according to claim 21, wherein a high density weight portion is integral with the sole section at a distance away from the face.
33. (Original) The golf club head according to claim 32, wherein the high density weight portion comprises tungsten or molybdenum.
34. (Original) A golf club head comprising:
a first body portion and a second body portion, the first body portion including a front face having a variable face thickness; and
a second body portion having a low density crown section,
wherein the club head comprises a spin rate to launch angle ratio of less than about 275 at a geometric face center under robot test conditions.
35. (Currently amended) The golf club head according to claim 34, wherein the spin rate to launch angle ratio is less than 250.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

36. (Original) The golf club head according to claim 34, wherein the club head has a sweet spot approximately at the geometric face center or above.

37. (Currently amended) A golf club comprising:

a first body portion forming at least a face portion and a sole portion formed of a first metal having a first density;

a second body portion forming at least a substantial portion of a crown section formed of a second metal having a second density less than the first; [[and]]

the second body portion forming at least a crown section, and a substantial portion of a skirt section, and

a hosel member extending above the crown section formed of a material having a density no greater than the first density.

38. (Original) The golf club head of claim 37, wherein the front face has a point of maximum coefficient or restitution not higher than about 2 mm below the geometric face center.

39. (Original) The golf club head of claim 37, wherein the front face has a point of maximum coefficient or restitution not higher than about 5 mm below the geometric face center

40-42. (Cancelled)

43. (Currently amended) The golf club head according to claim [[41]] 37, wherein the second body portion density is between about 0.1 g/cc to 4.0 g/cc.

44. (Currently amended) The golf club head according to claim [[41]], wherein the first material is a titanium alloy and the second material is a metal, or a composite or a thermoplastic.

45. (Original) The golf club head according to claim 44, wherein the second material is magnesium.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

46. (Currently amended) The golf club head according to claim [[41]] 37, wherein the first material is a stainless steel alloy and the second material is metal, composite or a thermoplastic.
47. (Original) The golf club head according to claim 46, wherein the second material is a titanium alloy.
48. (Currently amended) The golf club head of claim [[41]] 37, wherein the second body portion is cast, formed, injection molded, machined or pre-preg sheet formed.
49. (Currently amended) The golf club head of claim [[41]] 37, wherein the first body portion is forged.
50. (Currently amended) The golf club head of claim [[41]] 37, wherein the first body portion is sheet metal formed.
51. (Currently amended) The golf club head of claim [[41]] 37, wherein the first body portion is cast.
52. (Original) The golf club head according to claim 37, wherein the club head has a maximum coefficient of restitution greater than 0.80.
53. (Original) The golf club head according to claim 52, wherein the point of maximum coefficient of restitution is located approximate to a vertical plane including the geometric face center.
54. (Original) The golf club head of claim 37, wherein the thickness of the front face is greater at a sole section than at a crown section.
55. (Original) The golf club head according to claim 37, wherein a high density weight portion is integral with a sole section at a distance away from the face.

Appl. No.: 10/662,682
TC/A.U.: 3711 Docket No.: C03-05
Reply to Office Action of November 12, 2004

56. (Original) The golf club head according to claim 55, wherein the high density weight portion is between about 15% to 25% of the total head weight.